

CAGERS DOWN INDEPENDENTS IN IMPROVED STYLE, 33 TO 26

O'BRIEN, FEUSTEL LEAD SCORING FOR TECHNOLOGY FIVE

Victors' Superior Team Play Passes Individual Brilliance Of Opponents

FARRELL LOSERS' STAR

On Friday evening the Technology basketball team won its second game in as many starts by decisively downing the powerful Crimson Independent team, 33 to 26. In a game characterized by much unintentional fouling, the superior team play of Coach McCarthy's men prevailed over the individual brilliancy of the former college stars on the Independent team.

O'Brien, Technology left forward, for the second time this season was the high scorer of the game, collecting ten points for the Engineers. Tom Farrell, last year's Harvard captain, was the outstanding player for the visitors, scoring nine points during the game.

Sysko Starts Scoring

Sysko, Technology right guard, started the scoring by sinking a beautiful long shot soon after the referee had put the ball in play. The shot, however, was almost immediately matched by Dean, former California player and Independent right forward, who dropped the ball through the hoop from nearly the same spot on the floor. Feustel then made good a chance from the foul line, and O'Brien a minute later broke into the scoring column by calmly sinking two free shots after being rushed by an over-enthusiastic Harvard player.

After a beautiful display of defensive play by both teams, O'Brien again scored by looping a shot in from a scramble under the net. The Independents barely missed scoring when Dean's long try bounded from the rim of the basket and as the quarter ended, Feustel, Technology left guard tossed in a beautiful shot over his shoulder from almost directly under the basket.

(Continued on page three)

Dorm Phone Booths Lined With Acoustic Material

No more will the palpitating hearts of Wellesley lasses thrill to the sounds of engineers' booming voices as they 'phone from the Dorm telephone booths. The familiar resonance of the deep masculine voices will be gone forever, because the telephone booths are being lined on the inside with special acoustic and echo-deadening material. Incidentally a number of good 'phone numbers written in haste on the surrounding walls have been sealed for posterity.

Dramashop Prize For Poster Goes To F. C. Gans

Second Prize of Five Dollars Given C. S. Symonds; Two Rehearsals

Dramashop announced yesterday that the first prize of ten dollars in its poster contest had been awarded to Frederick C. Gans '34. Second place went to Charles S. Symonds '35 and carried with it a prize of five dollars. The contest, which was held a week ago, was not announced to any students except those in Course IV.

Hazel Weld '33, another Course IV student, has designed the cover for the programs for "Mr. Antonio," Dramashop's play which makes its first appearance next Thursday. Miss Weld also designed the program cover which was used for the presentation of "The Abashed Husband" last spring.

Dress Rehearsals

Two dates this week have been definitely set aside by Professor Dean M. Fuller, director and Faculty coach of every production Dramashop has ever given, which will be taken up exclusively with dress rehearsals. Monday and Wednesday evenings are the times appointed.

Professor Fuller is being assisted in the direction and management of the play by

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DR. G. R. HARRISON ILLUSTRATES TALK WITH EXPERIMENTS

Large Box Serves for Atom while Balls Act As Electrons In Demonstrations

LECTURE WELL ATTENDED

Using a man-size model of an atom, and "quanta" with colored tails, Professor George R. Harrison gave vivid demonstrations of modern physical theories in his lecture "Light and Atoms." This was the first of the annual Popular Science series, and was given yesterday at 4 o'clock before an audience which filled every seat in Room 10-250.

As his first experiment, Dr. Harrison applied an electric potential to a tube filled with air at atmospheric pressure. No visible result was noted, he explained, because the atoms of nitrogen and oxygen were too closely packed to vibrate fast enough to produce light. He pumped some of the air out of the tube, and it gave off a bluish glow. Then he allowed other gases to enter the tube, and each one gave a different color, showing, he said, that different atoms vibrate at different frequencies. When an extremely low pressure was obtained in the tube, rings of light appeared at intervals of about two inches. Professor Harrison explained this phenomenon by saying that, under the extreme conditions, the atoms within the tube travel an average distance of two inches before colliding with other atoms.

Ultra-Violet Ray

To prove the existence of ultra-violet rays, the lecturer projected a mercury spectrogram onto a screen. The usual bands of light were seen, and a photographic plate which had been held beyond the visible region showed, when de-

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Corporation XV To Hear Austrian Talk On Business Views

Hans Mars Will Speak at Dinner Meeting in North Hall On Thursday

Mr. Hans Mars, widely-known Viennese expert in business management methods, has been invited by the officers of Corporation XV to speak at the next dinner meeting of the Society. The meeting will be held in North Hall, Walker Memorial, on Thursday, December 17.

Mr. Mars is head of the Management Section of the National Labor Council in Austria, and has been interested for some years in the labor movements there. Because of his long experience in Austria, he is considered to be particularly well fitted to discuss his topic, "The European Attitude Toward American Business Methods."

The dinner will start at 6 o'clock and every effort will be made to close the meeting before 8.30 o'clock. Tickets will be sold at the door at the price of 75 cents for members of the Society, and \$1.00 for non-members. Memberships will also be available at the door before the dinner.

December Voo Doo Makes Its Bow On Stands Today

December's chilly winds will be greatly augmented by the withering blasts of Phos's facile pen as the December number of "Voo Doo" makes its appearance on the stands today. No one group will bear the brunt of his caustic comment this time, rumor hath it, but all phases of the community will share the blows alike. The cover discloses a ravishing Titian with the remainder of the art work up to the same high standard, and the accompanying humor of the same caliber.

WALKER MEMORIAL AGAIN CHOSEN FOR JUNIOR PROM

Posponments Of Dorm Dinner Has Been Made

Announcement was made yesterday that the Dormitory Dinner, which was to have been held to-night, has been postponed. "Bill" Cunningham, who had been scheduled to appear and speak to the Dorm men, was unfortunately called to New York on Saturday, not to return until Tuesday. Further announcement will be made in THE TECH, should arrangements be made for the dinner to be held before the Christmas Holidays.

Specialty Acts Are Feature At Christmas Dance

225 Couples Attend Concert And Dance Given by Musical Clubs

Specialty numbers in the Floor Show featured the Combined Musical Clubs' Christmas Concert and Dance, which was held in the Main Hall of Walker Memorial last Friday evening. President and Mrs. Karl T. Compton, who had been entertaining the foreign students in the Institute earlier in the evening, arrived at the dance just at the close of the concert, which was attended by 225 couples.

Beginning promptly at 8.30 o'clock, the concert lasted until 10 o'clock. Included in the concert were selections rendered by the Banjo Club, Glee Club, and the Instrumental Club. Dancing began after the concert was concluded and lasted until the floor show began at 12.45 o'clock.

Floor Show Features

Tap dancing by Victor Collymore featured the floor show, which invoked great applause from those gathered at the dance. Other favorites were the Banjo Duet, Arthur L. Conn '34 and Warren H. Pease '32; Merton S. Neill '34, who rendered xylophone selections, and Edward W. Donahue '34, who gave several piano

(Continued on page four)

ANNOUNCE DATE OF PROMENADE TO BE FRIDAY, MARCH 18

Date Disclosed Early To Give Sufficient Time To Make Arrangements

THIRD YEAR FOR WALKER

At a meeting of the Junior Prom Committee held last Friday, Walker Memorial was selected as the scene for this year's promenade which will be held Friday, March 18. This is the third successive year that the major social function of Technology will have been held in Walker Memorial.

The date of this year's Prom was set last spring by the Institute Committee. This year is the first that such a procedure has been carried out, whereby the dates of all the important functions of the year are set so far in advance. The time of Technique, Senior Ring, and Junior Prom signups, as well as the dates of Field Day and the Class dances were decided upon last spring. The Prom Committee wishes to announce the date of the dance at this time in order that those planning to attend may be able to make arrangements over the vacation if it proves necessary.

Up until two years ago this gift of the Alumni was used for little more than the home of the various activity offices and of a cafeteria. However, in the year 1929 a campaign to "Use Walker" was inaugurated and carried out during that year. The plan was to make Walker Memorial the seat of all the social functions at the Institute.

Basketball Dances Held First

Basketball dances were the first dances that proved the popularity of using Walker Memorial for dances. In 1930 the Junior Prom was held here and according to the following quotation, "From a period of comparative unpopularity, Walker has gained in the favor of the students as a place of recreation to a surprising degree," taken from an editorial of THE TECH, it can be said that Walker has "come into its own."

Girls Danced, Black Boys Dodged, Bars Poured, In Whoopee Of First Circus

Action Of Institute Committee Recalls Hilarious Night In March, 1923

"Whiskey Gulch Bar and Gambling Hell — Direct from the Klondike," did a rushing business at the first Tech Circus in 1923. Boston papers played up the affair to the skies, while the Associated Press lost no time in getting the story of the "barroom brawl" over the wires. African Dodgers, Ben Hur, knight-riders and lance, bull fights, hit-the-Coon, Tut's tomb, "Red Dog Daylie," all figured in the night's revelry. Hot dogs and peanuts were sold to the hilarious onlookers while damsels of rare form and beauty, attired in very close-fitting costumes, performed contortions suggestive of the Southern Pacific islands.

Agitation had long existed for some affair at which the undergraduates could get together for a good time, but it was not until the spring of 1923 that the Faculty finally approved the Circus on the grounds of establishing better fellowship among the students. Enthusiasm ran high and the affair had already received wide notoriety when the doors of the Armory were finally opened on that memorable March 1, and the first Tech Circus began its dizzy climb to popularity.

Fraternities Perform in Ring

Most of the activities ran side shows

while the fraternities performed in the large ring in the center of the floor. "Bad men and wimmin" were much in evidence as they clustered about and heartily indulged in exciting and uncertain amusements. Clowns surpassing even those which the combined efforts of Barnum and Bailey could produce were present to add to the merrymaking, while Toto, of world-wide fame, was easily copied and intensified. Chariot races in which "horses and charioteers continually risked their necks whirling about the arena with breath-taking speed in races at which even the mighty Ben Hur could look askance," were held.

An erstwhile fraternity butler of the shady variety poked his head through a small hole in the canvas and ducked, as a deluge of steaming baseballs made for his ebony coco. The Musical Clubs combined with THE TECH to go into competition with the "Red Gulch" and opened the "Musical Rech Bar," which was immediately mobbed, though Prohibition had already become a national law. Even the *Filler Paper* had a rival when a new publication, "The Red Dog Daylie," made its appearance and became the forefather of all "Ballyhoos" and "Hooeys."

The affair was characterized by surprises and novelties in rapid succession.

(Continued on page four)

SENIOR RINGS DELIVERED WEDNESDAY

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PUBLICATIONS FOR ALL

EVERY fall on Registration Day in the Main Lobby, the various publications wage their annual battle for student subscriptions. The success of the drive depends upon the activity of the solicitors on that one day, for seemingly little effort is made to obtain additional subscriptions after that day. Possibly there are exceptions, but such is the general rule.

The system of a single-day drive for subscriptions is open to objection on several counts: in such a short period there is no chance to solicit every student, the day chosen is one of confusion at best, too much depends on the one day's activity, and a rather small percentage of students subscribe to the publications.

The undergraduate publications at Technology are a valuable adjunct to Institute life, and the student subscribers receive benefit from them. Increased circulation, or a method by which every student would receive the publications, would be a direct benefit to the student body. Surely, increased circulation would benefit the publications themselves.

At many colleges and universities, through the cooperation of all the student publications, usually more closely united than are THE TECH, *Tech Engineering News*, *Voo Doo*, and *Technique*, through Pi Delta Epsilon, every student receives copies of all publications. Benefits of undergraduate papers are received by the entire student body, through an arrangement whereby the cost of student publications is added to the annual or semi-annual tuition fees where this is possible. In general the cost of the papers to the individual is far less than their separate costs, for the unit printing and engraving costs decline rapidly as the number of printed copies increases.

Because of the value of the undergraduate publications to the students, a policy embodying a complete student coverage is recommended to the Institute. True, a storm of protest may arise when such a policy is proposed, but after the system has been in operation its advantages are seen and the complaint disappears. To the objection that a guaranteed circulation will remove the incentive to have a good paper, one can only say that with the proper leadership the quality of the various publications will not fall. Such has been the experience at certain other schools. This is not a plea in behalf of student publications at the Institute, for with their small student circulations their affairs are in good shape. The benefit to the student of receiving student publications appears large enough to justify such a step.

SHIFTED RESPONSIBILITY

ONCE before we had occasion to comment upon the apparent lack of interest on the part of a few fraternities in affairs which should appeal to the student body as a whole, that occasion being just one year ago when two fraternities, completely ignoring the Musical Club's prior lien on the date, ran open house dances in competition with the annual Christmas Concert and Dance. Again we are forced to bring this to student attention, and to point out that Friday evening the same conditions prevailed; this year's Christmas Concert and Dance competed against dances held in two of Technology's stronger and more reputable fraternities.

According to the management of the Musical Clubs, letters were sent to each fraternity in the early fall, setting the date of the annual December affair, and asking that the houses cooperate in keeping this date open. Many of the houses, on receiving this notice, even went so far as to reply to the effect that the Clubs might depend upon their wholehearted support in this matter. Two weeks ago another letter was sent out, this one confirming the first one, and restating the petition.

The fraternities, on the other hand, assert that their plans were made before those of the Clubs, and that revision of these plans could not be thought of. As to the legitimacy of this excuse there is obvious doubt. Apparently no effort was made to ascertain whether or not this date might conflict with the Clubs, for the Christmas Concert is certainly an event which through annual repetition might be expected sometime in December, even though the date may not have been announced as yet. Then too, we might expect a more conscientious group to profit by the mistake made last year on the same occasion. Are we to assume, therefore, that there are fraternities which have become so independent that no organization, however deserving, may be assured of their support?

The Clubs must depend upon their gate receipts for their livelihood; the fraternities operate dances to reciprocate for social debts. Therein lies the underlying reason why the Musical Clubs should be allowed an evening which will offer no competition from any other student organization. Obviously a trust has been violated, a responsibility has been ignored. As we sincerely believed on a former occasion, this has been "one of the most deplorable breaches of campus etiquette."



What is the matter with the East? All of the good men and true now seem to be raised in the West. The 60-0 walloping that Southern California gave to Georgia, the conquerors of Yale, clearly shows that the East and South has degenerated "tootballally" and that Howard Jones is one of the greatest coaches in the country.

Another opinion drops on the Lounger like a ton of gold bricks. Perhaps the wages out West offer a greater incentive for the laborer than the Eastern Alumni are willing to offer, either through scarcity of ready cash or through fear of the Carnegie Foundation investigations.

A darn good game of basketball was played over in the Hangar Gym last Friday night. The boys showed just what teamwork could do when they took over a team of individual stars. The Lounger had a touch of panic when at the end of the half O'Brien was called for his third foul. All during the last half the breath of the Lounger came in short gasps as the crack shots from the Independents sank one long impossible shot after another. As the final whistle blew the Lounger heaved a sigh of relief and gazed with pride at the score, 33-26.

It seems too bad that the team can't depend on more support from the brown-bagging Institute. Only a handful came out to see a rip-snortin' argument. Surely the entire three thousand were not listening to the Musical Clubs hold forth.

It was darn kind of the Physics Department to change the scheduled quiz in Room 8-03 from the day before the Christmas vacation to the Friday before, but it seems to the Lounger that all of the Profs had decided on the same thing. Those hours of torture sure are piling up for this week. Well, there's nothing like work to make you appreciate a vacation.

Eddie Miller received the surprise of his life the other day when a foggy fraternity pledge, still weary from a week of demoralization came out of his fog with the response of "Yes, oh most noble knight." Eddie girded his boiler, looked fierce, and charged.



Loew's State

Sphinx-like, square-jawed Chester Morris, and slow-speaking, two-reel-comedy actress Thelma Todd combine in a typical *Liberty Magazine* plot under the sloppy direction of Roland West, to give an unconvincing superficial cinema, current at Loew's State, known as "Corsair," which thrilled the two and one-quarter million readers (99 per cent news-stand circulation) of *Liberty Magazine*, when it ran as a serial, quite some time ago.

Rough and ready, and at times humorously crude, son-of-the-West Morris is shown winning his last game of football in college and then entering the "boiler" room of a Wall Street magnate. (The "boiler" room is that slick-tongued, cleverly-crooked department of so-called "investment houses" which specialize in separating innocent widows, orphans, and dumb suckers from their hard-earned money in exchange for worthless oil stock.) Too honest for such two-faced occupation, Morris quits to become a hi-jacker. He takes about a quarter of a million's worth of stuff on the high seas from a syndicate of booze-runners backed financially by his former boss, and sells it back to him for very much less. On the third trip "Big John", chief of the bootleggers, plants bombs (i.e. pineapples), in the cases and a few minutes after they are transferred to Morris' boat (the *Corsair*), the boat blows up. Lucky for the director, however, for some foolish reason everybody leaves the *Corsair* in a small launch, just a few seconds before it blows up, and allows the plot to continue for a few more reels. Eventually Morris and his gang take possession of the bootlegger's ship and set the booze hounds adrift in two small boats in Count Felix Von Luckner style. He and Alison Loyd (alias Thelma Todd) then decide to close the picture in "they lived happily ever-after" style.

C. S. D.

Institute Laundry Service Proves to be Great Saving to Departments

About Fifty Percent Cheaper Than If Given Out To Private Concerns

In this time of depression it might be well to point out the attempts that the Institute is making to reduce costs. In the laundry service, that is located in Building 30 out behind the Automotive Laboratory, the Institute carries on a work that if sent to outside concerns would more than double the costs.

For 740,000 pieces, including sheets, pillow cases, hand and bath towels, Walker Memorial Dining Service linen, janitors' coats, and all the Infirmary supplies, it costs Technology only \$9,500 a year, or 1.3 cents per piece. The service comes under the supervision of the Superintendent of Buildings and Power, Major Albert S. Smith. In an interview with the reporter, he took great pride in showing the figures representing the great saving that the service was making.

One-Day Service Is Rendered

Each morning an Institute truck makes the rounds of the boat house, the Infirmary, the track house, Walker Memorial,

and the dormitories, and collects the day's wash. That same night all the work is done and waiting for delivery at the door of Building 30. During all this time the work from the Infirmary, the dining service, and the personal laundry is kept separate.

Five persons, three women and two men, find steady employment in whitening the dusty linens. Three wheels are used in taking care of the work. These wheels are cylindrical metal containers that are filled with water, soap flakes and a slight amount of bleaching powder and the dirty laundry. Together they rotate for about a half-hour.

Centrifugal Dryer Used

All bath towels are taken from the wheels and placed into a centrifugal dryer, or extractor, as it is called, which rotates at 2700 r.p.m. Centrifugal force pushes the water out of holes in the side of the cylinder, and after a few minutes of whirling, the towels come out almost dry. In order to completely dry the towels, they are placed in a steam-heated dryer and all of the remaining moisture is stewed out. They are then packed in bundles and placed in baskets in preparation for their distribution to their various destinations.

As the sheets, pillow cases and hand towels are taken out of the wheels, they are placed in a steam-heated mangle, which both dries and irons them at the same time. Why it should be termed a "mangle," is more than the reporter can figure out, unless it is because of its efficiency at removing buttons.

Two Coat Irons Employed

Janitors' coats cannot be run through the large size ironer, and there had been installed two special coat ironers just for that purpose. One woman can run both of them at once with little difficulty. A safety mechanism has been incorporated in the design of the equipment that prevents any accidents. The two arms of the ironer will not come together until the two hands of the operator are on the handles below the machine, thus making it impossible for the woman to find that she has pressed a hand instead of the coat. Since the installation of the machines, they have been found convenient for putting the finishing touches on nurses' uniforms, waitresses' aprons and chef's costumes.

Over four hundred thousand napkins are laundered during one year. This one item furnishes over one-half of the total work that is done. Twenty-one thousand towels of the towel supply service were cleaned last year. There are about three times as many towels supplied as there are subscribers, and at the end of the year the surplus are turned over to the dormitories for their use.

Up till this year the dormitory blankets were all done by the Institute Service, but because of the need for a napping machine, it has been found advisable to send them out to a laundry where such a device is installed. No personal laundry is done by the Service. All that is accepted is regular Institute work.

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ANNUAL WRESTLING TOURNAMENT ENDS WITH FINAL BOUTS

Eight Men Finish Out of Field Of Fifty. Dr. Rockwell Makes Awards

COMPETITION IS STRONG

With an entering field of over fifty men, the All-Tech Wrestling Tournament came to a close with its final matches. The finals and the semi-finals were held in the Hangar Gym, the final matches being wrestled on Friday evening.

This tournament ranks among the best and the most strongly-contested in the annals of Technology wrestling events. Every man wrestled well, and there was much more competition for the prizes of the various weight divisions; and from all appearances there will be strong rivalry for positions on the varsity and freshman teams this season, a point which has been decidedly lacking for the last few years at the Institute.

MacMahon Wins Hard Bout

In the finals of the 118-pound class, MacMahon won from Hinkley by a fall in 8 minutes and 50 seconds. As is evidenced by the time taken, this was one of the hardest bouts of the tournament. Although the winner was behind his opponent in time advantage by more than two and a half minutes, he succeeded in falling him with a half-Nelson and a body-hold.

Perry won the medal of the 126-pound class, by falling Lowry in 4 minutes and 56 seconds. He used a double bar lock. And by using a half-Nelson and an arm hold, Judd downed Rafters by a fall in 5 minutes and 9 seconds and came out first in his division, the 135-pound.

Isbister Victor in 145-Pound Class

Isbister again won the medal for the 145-pound section. Last year he not only won it, but also won the distinction of being the N.E.I.W.A. freshman champion of his class. This year he won over Law-sine by a fall in 5 minutes 18 seconds, using a half-Nelson and a body hold.

McCaughan, last year's champion of the N.E.I.W.A. for the 155-pound division, won the best match of the finals by a time advantage over Moore. The individual time advantages were: McCaughan, 3 minutes 46 seconds and Moore, 2 minutes and 30 seconds, McCaughan having the advantage of 1 minute, 16 seconds.

McCaughan Loses Second Bout

McCaughan not only entered in the 155 but also in the 165-pound class, and was able to keep to the front as far as the finals, but he was stopped there by Poole, who also wrestled in both classes and who won the medal of the 165-pound division by a fall in 4 minutes and 43 seconds, with a half-Nelson and a front crotch hold. McCaughan had previously won from Poole in the 155-pound class by a time advantage of 1 minute and 5 seconds.

Throwing his opponent by means of a leg hold, Miller came out on top of the 175-pound division by falling Martin in 4 minutes and 14 seconds.

Koller Victorious Heavyweight

Koller successfully defended his heavy-weight title for the third consecutive year by winning from Putnam by a fall in 3 minutes 34 seconds, using a half-Nelson and a body hold.

After the finals had been run off, Dr. John A. Rockwell '96, member of the Advisory Council of the M.I.T.A.A., made the presentation of medals to the winners of the eight weight divisions. The matches were refereed by Garcelon, of Tufts.

HOLD PRELIMINARIES FOR SWIMMING MEET

Preliminary trials will be held for the annual Interclass Swimming Meet this afternoon in the pool of the University Club.

Following is the order of events to be held in the preliminary trials: 220-yard trial, 50-yard trial, 100-yard breast stroke trial, 100-yard free stroke trial, 100-yard back stroke trial, 50-yard free style semi-final, 100-yard free style semi-final, and 440-yard free style trial.

These trials and semi-finals start at 5 o'clock this evening at the University Club near Copley Square. All men interested in representing their class in the annual Interclass Swimming Meet are urged to come out. The finals will be held Wednesday at the same place.

Class Winners in All-Tech Tournament Receive Awards from Dr. Rockwell as Coach Ricks Looks On



Left to Right. Front Row: Dr. John A. Rockwell '96, Frank K. MacMahon '33, 118-pound class; Frederick B. Perry '34, 126-pound class; Frederick Van H. Judd '34, 135-pound class; Eric J. Isbister '34, 145-pound class; Coach Jay Ricks. Back Row: George J. McCaughan '34, 155-pound class; Frank Poole '34, 165-pound class; Richard F. Miller '34, 175-pound class; George F. Koller '33, unlimited class.

O'Brien, Fuestel Lead Scoring for Technology Five

Victors' Superior Team Play Passes Individual Brilliance Of Opponents

(Continued from page one)

After the rest at the end of the first quarter the Crimson started the play with a rush. Peckham, Independent center, sank a try from the foul line and a few seconds later Dean received a pass and looped in a basket from the right side of the court. Dean shortly afterward again scored from the floor after a pass had placed him in position under the net.

In a mix-up under the Engineers' net, Captain Harry Johnson injured his hand, but returned to the game after the member had been taped. As a result of the same tangle, O'Brien added another point to the Technology score by sinking a shot from the foul line.

Technology Leads at Half

Several long shots by both teams having failed, Hill of the Independents arched the ball through the ring. This score was soon offset by O'Brien's clever toss a moment later. With three minutes remaining in the half, Beasel, former Dartmouth star, made good a free shot. Sysko soon added his third point to the Technology score, and Farrell, outstanding Independent player, tossed in a like shot from the foul line that amused the spectators by balancing on the rim of the basket. As the half ended, Feustel sank two free shots that dropped through the hoop without rippling the net. The count at the end of the period stood 18 to 11.

Soon after the beginning of the second half, Feustel contributed another basket after cleverly evading the Independent defense and Sysko tossed in a beautiful long shot from mid-floor. The visitors seemed to have trouble in finding the basket and missed several tries from under the hoop.

Independents Rally

O'Brien scored shortly afterwards by a long shot after some fine passing had deceived the Crimson defense. Sysko added his third point of the period by sinking a free try and O'Brien soon followed his example by tossing in a like shot. During the remainder of the game the Independents fought to overcome the Technology lead, and though they were able to gather eight points to the Engineers' six, the game ended with the visitors on the small end of a 33 to 26 score.

M.I.T. Varsity				Crimson Independents			
G	F	P		G	F	P	
O'Brien, lf.	3	4	10	Hill, lf.	3	0	6
Oldham	0	0	0	Weddes	0	0	0
Coffey, rf.	0	0	0	Boisel, rf.	2	2	6
Emond	0	0	0	Dean	2	0	4
Johnson, c.	2	1	5	Peckham, c.	0	1	1
Feustel, lg.	3	4	10	Lind, lg.	0	0	0
Amenta	0	0	0	Mahady	0	0	0
Sysko, rg.	2	4	8	Farrell, rg.	4	1	9
				Masters	0	0	0
Totals	10	13	33	Totals	11	4	26

Students at the University of Colorado are rigidly enforcing the rule to not have dates at football contests. Any freshman caught in the presence of a member of the opposite sex at a game will be thrown into the campus lake without further formality, while upperclassmen will be publicly embarrassed by being forced to make a speech before the entire crowd on "Why I Brought a Date." Rather forceful, isn't it?

Track Team Runs In First Handicap Meet This Season

Indoor Teams Engage in First Of Three Meets To Be Held This Year

Technology's indoor track team held Saturday afternoon the first of a series of three handicap meets scheduled to take place before the official opening of the season next January. In these meets the competition is entirely among the members of the squad, the main purpose being to let Coach Oscar Hedlund see all the men in action and get a better idea of the ability of the team.

These meets are held on the board track behind the squash courts. This track has a straightaway for the dashes and hurdles and an oval with banked turns for the longer runs, the mile consisting of twelve laps. During the course of the afternoon, six running events, three field events and one special exhibition race were held.

Two B.A.C. Runners Race

Since one man did not compete in more than one or two events there was no individual to whom the laurels of the day should be awarded. Coach Hedlund said, however, that he thought the meet was a very good one and the boys did very well. One of the most amusing features of the afternoon was Sousas's tendency to jump the gun at the starts. The exhibition run of the day was made by two boys from the Boston Athletic Club. The length of their race was 600 yards, and it was so close throughout that it was not decided until near the end.

Approximately seventy men took part in the meet. This includes both freshmen and varsity runners. In a meet like this, the competitors are given handicaps ranging from one foot to 60 yards, depending on the length of the race. In the long runs, however, the winners were generally those who had been running for more than one year and who therefore had no handicap. The second of these meets is scheduled for next Saturday afternoon at 2.15 o'clock.

In this tabulation scratch means the runner had no handicap. The data on the running events is given in the following order: Position, Name, and handicap. The time is the time of the winner of the race. In the field events the following arrangement is used: Position, Name, accomplishment, and handicap.

Results of the events were as follows:

45-Yard High Hurdles
1st Pierce; 2d Lockhart. Time 6 2-5 sec.

50-Yard Dash, Freshmen
First heat: 1st Sharpe, scratch; 2d Colby, 2 ft.; 3d Holley, 1 ft. Time 6 1-5 sec.
Second heat: 1st Horton, 3 ft.; 2d Nelson, 2 ft.; 3d Gleason, 3 ft. Time 5 4-5 sec.
Final heat: 1st Horton, 3 ft.; 2d Sharp, scratch; 3d Holley, 1 ft.; 4th Colby, 2 ft.; 5th Nelson, 2 ft. Time 6 sec.

50-Yard Dash, Varsity
1st Hill, 2 ft.; 2d Bell, scratch; 3d Lockhart, 2 ft.; 4th Sousa, 2 ft.; 5th Timmerman, 4 ft. Time 5 4-5 seconds.

50-Yard Dash, Freshmen and Varsity
1st Bell, scratch; 2d Hill, 2 ft.; 3d Horton, 3 ft.; 4th Sharpe, 3 ft.; 5th Holley, 3 ft. Time 5 4-5 sec.

440-Yard Dash
First heat: 1st Lincoln, 18 yds.; 2d Holley, 5 yds.; 3d Chalmers, scratch; 4th Wilkins, 30 yds.; 5th Gleason, 20 yds. Time 57 3-5 sec.
Second heat: 1st Sousa, scratch; 2d Tebbets, 20 yds.; 3d Piotrowski, 25 yds.; 4th Gittens 25 yds.; 5th Herkhardt, 18 yds. Time 56 1-5 sec.

Half Mile
1st Schwarz, 20 yds.; 2d Jewett, scratch; 3d Smith, 20 yds.; 4th Mulliken, scratch; 5th Geil, 25 yds. Time 2 min. 43-5 sec.

(Continued on page four)

FRESHMAN CAGERS BEAT WENTWORTH IN FIRST CONTEST

Open Season in Hangar Gym by Defeating Prep School Quintet 29-25

SARVIS LEADS SCORING

Saturday afternoon at 2.30 o'clock in the Hangar Gymnasium, the M.I.T. freshman basketball team opened its season by defeating Wentworth Academy of Boston by a 29 to 25 score. Eleven members of the freshman squad played.

Both quintets showed a decided lack of practice, as partly shown by the large number of personal fouls. Two member of the visiting aggregation were forced to leave the game for committing four offenses. Neither side was very proficient in shooting, but the freshmen held enough of an edge to gain the victory. Several players displayed real ability, and with a little more practice the yearlings should develop into a powerful team.

Doucette Starts Scoring

Featured by numerous personal fouls and frequent blunders by each side, the game was not a particularly interesting one to watch. After about two minutes, during which the Wentworth players took several crazy shots, Doucette, freshman forward, sank a short shot to give his team a lead which they held for the rest of the game. Play was slow during the whole first half, the Engineers leading 7-4 after the first quarter and 15-8 at half-time.

Wentworth sent in a new team to open the second half, but it appeared no better than the original one. The freshmen presented a more organized attack, and handled themselves more confidently. The third quarter ended with the score 23-16. In the last few minutes, with many Technology substitutes in, Wentworth staged a belated rally, led by Forsyth, substitute guard, and almost managed to overtake their opponents. The final score was 29-25.

Sarvis Leads Scoring

Sarvis, left forward, led the freshmen in scoring with twelve points. Another forward, Bailey, who was substituted in the second half, made six. Other likely-looking prospects were Fitzgibbon and Szczechowicz, who both played good games at center, and Peterson, a fine defensive guard.

For the Huntington Avenue school, Forsyth, with ten points, and Miller, with seven, were the best players. Neither side was very accurate at foul shooting, missing a good many of their attempts.

The freshmen's next game will be with the Rhode Island State freshmen, as a preliminary to the contest between the Technology and Rhode Island State varsities.

The lineup of Saturday's game:

M.I.T. Freshmen				Wentworth Academy			
G	F	P		G	F	P	
Sarvis, lf.	5	2	12	Cannon, lf.	0	1	1
Rosenbard	0	0	0	Ek	0	2	2
Doucette, rf.	1	0	2	Miller, rf.	2	3	3
Fisher	0	2	2	Wingquist	0	0	0
Bailey	3	0	6	Flood, c.	0	1	1
Fitzgibbon, c.	2	0	4	Burke	0	0	0
Szczechowicz	1	1	3	Ziady, lg., c.	1	0	2
Peterson, lg.	0	0	0	Stewart	0	0	0
Morgan	0	0	0	Bond, rg.	1	0	2
Roffe, rg.	0	0	0	Forsyth	5	0	10
Cooper	0	0	0				
Totals	12	5	29	Totals	9	7	25
Referee:	Kelleher.						

All Vermont men using the shower in the gymnasium are required to provide themselves with a pair of wooden clogs. This is to fight that scourge trich.???. Oh, Athlete's foot!

Apropos of the agitation on various university campuses in favor of splitting the cost of a date between the man and the girl, a group of University of California co-eds today announced that they would be willing to pay all the expenses of such providing the men come up to the specifications of the perfect male. But there is always a catch in such generous offers.

Deductions

To live is to eat.
To eat is to deplete the budget.
To deplete the budget is to cause nausea.
To avoid nausea is to eat reasonably priced appetizing foods.
To eat reasonably priced appetizing foods is to patronize the

VARSITY DINAH

To patronize THE VARSITY DINAH is to LIVE.
70 Ch
(Down past the old Dorms)

Squash Teams Lose To University and Tennis Club Fives

Harvard Business Team Defeats Varsity "D". DeGive Out With Injury

Losing all the matches scheduled for the week, the Institute's squash teams played a losing series of games. The varsity "C" lost to the Tennis and Racquet Club, the varsity "D" was defeated by the Harvard Business School, the Faculty team was downed by the Newton Center team, and the freshmen were beaten by the University Club.

In the varsity "C" squad, they were forced to play short one man, as DeGive had injured his playing hand and was unable to give any performance. The score was 3-1. Payne, of the Engineers, was the only man to win over the Tennis Club players. He defeated his opponent by the last game, 5-4. It was the best game of the series. Ingles lost by one game, and Newman and Murphy were each defeated 3-1.

Harvard Business School defeated the varsity "D" team 5-0. Martin lost to Ward with scores of 16-17, 18-17, 13-11, and 15-9. Oliver lost to Harris 15-11, 18-14, and 15-5. Stent was defeated by Eder 15-6, 15-12, 16-18, and 15-10. Rector was downed by Wood by 16-17, 15-8, 15-9, and 15-7. And Hunt lost to Love by 15-8, 18-14, 15-5, and 15-7.

Losing by 3-2, the M.I.T. Faculty was vanquished by Newton Center. The freshman team was downed by the University 5-0. All the last-named team's playing was notably better although they were defeated, and it is expected that they will continue their improvement as the season advances.

SOCCER BANQUET TO BE HELD WEDNESDAY

Wednesday evening at 6 o'clock in the Grill Room of Walker Memorial, the annual banquet of the soccer teams will be held. Since letters will be awarded and next year's captain will be elected, all varsity and freshman team members are urged to be present. Dr. Allan W. Rowe '01 will be the principal speaker. Both the varsity and freshman squads concluded excellent seasons last month, illustrating the fact that soccer is constantly gaining in popularity at the Institute.

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Colloquium **Electrical Engineering**
Monday, December 14, and Tuesday, December 15, 2.00 p.m., Room 10-275
Mr. C. J. Koch, Induction Motor Department, General Electric Company, will lead the colloquium on "Induction Motor Design."
Open to Seniors, graduate students, Junior honors group, and members of the instructing staff.

Physics and Physical Chemistry **Harvard University**
Monday, December 14, 4.45 p.m., Cruft Lecture Room
Physical Colloquium. The Sixth Meeting of the American Acoustical Society at Cleveland. Dr. Martin Grabau, Dr. Harry Hall, Dr. Frederick Hunt.
Tea served in the library of the New Physics Building at 4.15 o'clock.

Wednesday, December 16, 4.00 p.m., Room 4-402
Theoretical Seminar for Graduate Students. Mr. M. F. Manning will talk on the Principle of Uncertainty.

CALENDAR

- Monday, December 14**
2.00 p.m. — Electrical Engineering colloquium in Room 10-275.
5.00 p.m. — Banjo Club rehearsal in East Lounge of Walker Memorial.
5.00 p.m. — Society of Automotive Engineers meeting in Room 1-331.
6.00 p.m. — Dormitory dinner in Main Hall of Walker Memorial.
- Tuesday, December 15**
2.00 p.m. — Electrical Engineering colloquium in Room 10-275.
5.15 p.m. — A.I.E.E. lecture and dinner meeting starts in Room 10-250.
5.30 p.m. — Tech Engineering News dinner in Grill Room of Walker Memorial.
6.00 p.m. — Instrumental Club rehearsal in East Lounge of Walker Memorial.
7.00 p.m. — Alpha Phi Delta business meeting in Grill Room of Walker Memorial.
8.00 p.m. — Armenian Club play rehearsal in West Lounge of Walker Memorial.
- Wednesday, December 16**
6.00 p.m. — Soccer Team banquet in Grill Room of Walker Memorial.
6.00 p.m. — Civil Engineering Society dinner in Faculty Dining Room of Walker Memorial.
7.30 p.m. — M.I.T. Chemical Society smoker in Faculty Dining Room of Walker Memorial.
7.30 p.m. — Sleepy Hollow Boys rehearsal in Walker Gym.
9.00 p.m.-1.00 a.m. — Armenian Club dance in Main Hall of Walker Memorial.

Undergraduate Notices

Soccer Pictures

Pictures of the varsity and freshman soccer squads are to be taken today at 5 o'clock in Room 11-003. All team members who wish to be included in the pictures must wear uniforms.

Infirmary List

Burke, James '34
Chadwick, T. A. (graduate)
Ellsworth, Carl
Hershtenkorn, Meir '32
Kut, Walter '33
Varey, Thomas (unclassified)
Weber, Carl.

Technology Hockey Team Overwhelmed By Princeton 10-2

Regan and Hrones Make Only Tallies for Engineers In Rough Game

Princeton's hockey team took a fast, rough game from the Technology varsity Saturday night at the Baker Memorial rink by the overwhelming score of 10-2. Captain Bill Barber of the Princeton team did all sorts of things to the puck, including shoving it into the Beaver net three times.

Art Lane, a Sophomore defense man, was not outdone as far as scoring was concerned, for he, too, made three counters. The entire game showed the superiority of the Princeton team, although the sextet had a great deal of difficulty in getting started.

Regan and Hrones Score

Captain Tommy Regan of the Institute team scored one of the two Beaver tallies early in the second period on an assist from Joe Fahey. The other counter came later in the same period on an unassisted play from the stick of Johnny Hrones. Hrones also did all of the Technology scoring in the Harvard game.

Outstanding Again By Its Absence

Outstanding again by its absence was the lack of teamwork in the first forward line, composed of Regan, Fahey, and Cochrane. Last season, playing together, the line was functioning nicely. In the Princeton game, however, most of their plays were broken up early by Lane and Boice, Princeton defense men.

One Score in First Period

Both teams had difficulty in getting started in the first period. Five minutes of play resulted in a scoreless battle be-

HANDICAP MEET HELD ON LAST SATURDAY

(Continued from page three)

Mile Run
1st Kearns, scratch; 2d Mann, scratch; 3d Buresh, 50 yds.; 4th Hall, scratch; 5th Talbert, 60 yds. Time 4 min. 40 sec.

High Jump
1st Germond, 5 ft. 4 in., handicap 4 in.; 2d Lippold, 5 ft. 3 in., handicap 3 in.

Shot Put
1st Newell, 45 ft. 6 in., handicap 8 ft. 6 in.; 2d Greenlaw, 44 ft. 1 in., handicap 8 ft.; 3d Dixon, 43 ft. 9 in., handicap 8 ft.; 4th Lovering, 43 ft. 2 1/2 in., scratch; 5th Prestwich, 42 ft. 5 in., handicap 9 ft.

Pole Vault
1st Dixon, 10 ft. 8 in., handicap 8 in.; 2d Stark, 10 ft. 4 in., handicap 10 in.; 3d Green, 10 ft. 3 in., handicap 3 in.; 4th Prestwich, 10 ft. 0 in., handicap 12 in.

R. R. TICKET SERVICE TO COMMENCE TODAY

Representatives of three railroads and two bus companies will be at the office of the Technology Christian Association today to aid students who intend to go home for Christmas in securing tickets and Pullman reservations.

This service will be available every day between 12 and 1.45 o'clock until December 22. Henry Braun '32, who represents the bus companies, will be present between 1 and 1.45 o'clock only, because of classes. This service is conducted each year by the Ticket Service Division of the T.C.A. without charge to the students. It is now in charge of Frank G. Feeley, Jr., '34.

Freshmen at Beloit College take to the gutter when passing upperclassmen and are required to salaam the janitor on sight.

tween the two first lines. Following substitutions on both teams, Glazebrook, right wing for the Tiger team, slipped one by Milliken, after a pass from Lane.

Seven goals followed in the second period, with Technology making the only two that were recorded for the team. Princeton ran wild during this and the last period with nine tallies in the two periods.

Following is a summary of the game:

Princeton **M.I.T.**
Barber (McAlpin), r.w. r. w., Fahey (Thompson)
Kammer (Glazebrook), c. c., Cochrane (Silverman)
Cook (Poole), l.w. l.w., Regan (Hrones)
Boice (Lea), l.d. l.d., Hayes (Marvin)
Lane (Parker), r.d. r.d., Peterson
Hirsch (Thuron), g. g., Milliken
Score: Princeton 10, M.I.T. 2.
Goals: First period, Princeton, Glazebrook (Lane) 5:36.
Second period: Princeton, Kammer, 3:20; M.I.T., Regan (Fahey), 3:58; Princeton, Lane 3:11; M.I.T., Hrones, 9:34; Princeton, Barber, 14:46; Princeton (Barber, Kammer), 15:40; Princeton (McAlpin), 17:20.
Third period: Princeton, Cook (Boice), 00:13; Princeton, Lane (Kammer), 4:11; Princeton, Lane, 8:16; Princeton, Barber (Cook), 9:45.
Penalties: Regan, Poole 2, Hrones, Thompson, Cook, Kammer, Hayes, Peterson. Referees: MacDonnell and Boysen. Time: 18-min. periods.

HILARITY REIGNED AT OLD TECH CIRCUSES Reinstatement Recalls Events Of Former Carnivals

(Continued from page one)

In one corner Nature's most marvelous and eccentric creatures, from the walking skeleton and overstuffed fat man to the wild man from Borneo and the bearded lady, were on exhibition as curious and gaping crowds thrilled at Nature's monstrosities. On another stand an efficient and well-managed hospital operated professionally on the nearest victims whether they liked it or not. Tut's tomb, inspired by the then current discovery of the Egyptian king's tomb, formed an interesting and somewhat grotesque exhibition.

A Spanish bull fight ended in a victory for the bull, but not until its hind legs had been severed and went running dizzily about the arena, while the head and foreparts continued the battle, still unconscious of the end loss. The knight-riders-and-lance contest drew many entrants and provided plenty of thrills, while a side show of African Dodgers proved to be the most popular of its competitors.

"Boys, Go To It," Says Mary Nevens

A number of conflagrations occurred during the course of the evening, but the lightning action and untiring clamor of the special fire department, assisted by the police and hospital corps, was successful in extinguishing the flames. Rowdiness and horseplay, extensively predicted by the country's papers, was nowhere to be found. Everyone seemed to be busy making fun and whoopee. Even when Mary Nevens, chairman of the Committee for Wayward Girls, walked into the barge, she was quoted as saying, "Boys, go to it." And this, in the opinion of the Institute professors, was sufficient endorsement to continue the traditional and annual affair in the future. This they did, until financial difficulties overtook the fun and a lull in Circus Days followed.

255 COUPLES ATTEND CHRISTMAS CONCERT

Specialty Acts Are Feature Of Formal Walker Affair

(Continued from page one)

solos. Dancing was resumed at the conclusion of the floor show and lasted until 3 o'clock.

Refreshments were served to the dancers from 11.45 until 12.30 o'clock, with a special supper for the matrons and management of the Clubs in the Grill Room. The orchestra continued to play while the refreshments were being served so that congestion and confusion were avoided.

Poster Prize Awarded

During the evening, Eugene F. Lynch '32, general manager, presented the prize money for the winning poster in the contest held by the Clubs, to William H. Brown '33. This poster, along with the second prize-winning poster, was on exhibition in the lobby of Walker Memorial. Decorations consisting of colored lights and evergreens filled the Main Hall and the lobby of Walker Memorial.

DRAMASHOP WILL OPEN AT ROGERS THURSDAY

(Continued from page one)

two former managers who are at the Institute as graduate students. One member of the cast is an original charter member of the organization, having been present in the time back in 1927 when Dramashop merely read and did not produce plays.

Tickets, which have been for sale for the last two weeks, but only through members and managers of the play, will go on public sale in the Main Lobby today. Those desiring to purchase them may do so between the hours of 12 and 1.30 o'clock any day until Thursday. They are being sold at the price of one dollar.

The Colby Echo says in an account of an astronomy lecture that Mercury and Venus were dealt with first, but that "on the next planet, Mars, Dr. Fisher spent most of his time."

The Clark News carried three articles on Doris Kenyon, who appeared at Clark University a couple of weeks ago. From one of them, we learn that when it was rumored she was in the building, several students started to leave their classes to see her.

Dr. Harrison Illustrates Talk By Experiments

Large Box Serves for Atom while Balls Act As Electrons In Demonstrations

(Continued from page one)

veloped, the existence of more of these bands. The latter, it was explained, consisted of ultra-violet light which did not affect the eye but showed on the sensitive photographic film.

That glass is opaque to infra-red radiation was shown by observing the deflection caused to a sensitive galvanometer whose shadow was projected on the wall, when the rays were allowed to fall on a thermocouple in circuit with the galvanometer; then noting that there was no deflection when a piece of ordinarily transparent glass was interposed between the source of rays and the thermo-couple.

Effect of Light Waves

Whenever possible through the lecture, Professor Harrison explained the effects of light waves by analogy with the phenomena of sound waves. One instance of this was the explanation of the method used to measure the relative velocities of distant nebulae. Slides of spectrograms obtained from various nebulae were projected onto the screen, and the audience was requested to note that the characteristic lines of calcium in the spectrum had shifted towards the red end, by various amounts. A tuning fork was then produced, and was hit to make it vibrate at an audible frequency. When the vibrating fork was suddenly moved away from the audience, a lowering of the note emitted was heard. This, the professor explained, is analogous to the movement of the spectral lines toward the red, or low frequency end of the spectrum. Thus, the nebulae which showed such a shift in their spectrum must be moving away from the earth, and the magnitude of the shift is a measure of their velocities. These velocities were said to lie in the neighborhood of ten thousand miles a second, which means that the nebulae could go around the world in about two and a half seconds. Professor Harrison said that this movement of spectral lines is what is known as the "Doppler Effect."

"Interference" of light waves was demonstrated both by an analogy, and by an actual experiment on light waves. In the former method, two tuning forks of different frequency were made to vibrate in a bowl of mercury, and when the resulting ripples were projected onto the wall, spots were seen where there were almost no waves, and others where there were very large waves. Similarly, light was passed through a double prism, which split it into two bands, and when the two bands were made to converge on the wall, after having traveled different distances, a series of lines was produced. This, according to the speaker, was due to the interference of light; in the bright lines the waves of the two bands of light had struck the wall in unison, causing a double effect but in the dark lines the waves of the two bands had been "out of step" and had counteracted each other, producing no effect at all.

Shows Size of Atoms

Before going into details about atoms, Professor Harrison wanted to give an idea of how big they are. He asked someone to take a deep breath, and then told the story of how Julius Caesar had said "et tu Brute," when he was fatally stabbed. The man who had so generously taken a breath, the Professor said, had breathed in twenty-four of the same molecules that escaped from Caesar's mouth when he made the famous statement. There had been so many billions of molecules in Caesar's dying breath that even after they had diffused all over the earth, there were twenty-four in the volume of air breathed in by the subject of this experiment.

To illustrate the "photo-electric effect" which is partly responsible for the modern quantum theory, the leaves of an electro-scope were projected onto the screen. By bringing a rubber rod, which had been rubbed on the skin of a dead cat, near the electro-scope, a positive charge was induced on the instrument, and the leaves separated. When light was shone on it, the leaves did not come together any faster. But when light was shone on the instrument after it had been charged with negative electricity, obtained by rubbing a glass rod with silk, the leaves fell together very fast, showing that the electro-scope was discharged faster.

Drawing pictures on the blackboard as he proceeded, Professor Harrison reviewed

Bus Ticket Service Will Be Operated By THE TECH

In cooperation with the Greyhound Bus Company, THE TECH announces a ticket service which will be operated from its News Office, Room 3, Walker Memorial, on Tuesday, Wednesday, and Friday from 12 to 1.30 o'clock. Bus tickets to all parts of the United States, Canada, and Mexico, will be on sale.

Special low-rate round-trip tickets, which are usually limited to seven days between trips, will be good during the entire Christmas vacation and until January 4, 1932. This is an opportunity for members of the Institute to purchase round-trip tickets for as little as \$1.00 over the price of the one-way fare.

For information regarding schedules and rates, see Willard B. Simonds '33 in the News Room between 12 and 1.30 o'clock on Tuesday, Wednesday, and Friday of this week and next.

the history of the atom, telling distinctive qualities about each new "model." When he got down to the Bohr atom of 1912, the Professor utilized a large black box with the word "atom" painted on it to illustrate the Bohr atom's properties. He stood beside the "atom" and played notes on a harp to simulate radiation. When he played a low note, representing long wavelength radiation, the "atom" did not respond, but when a high note (short wave length) was sounded, an electron (this part was played by a yellow ball) hopped out of the atom and fell back into it. The shorter the wavelength of the note sounded, the higher the "electron" bounced, and the greater the amplitude of the note, the more often the balls bounced. This demonstration was to illustrate the theory that was put forward by Bohr, to the effect that when an atom gives off light, it does so because an electron jumps out of its orbit, and then falls back into it again.

"Airships — America Steps Ahead With the 'Akron'"

"Airships — America Steps Ahead with the 'Akron'" will be the subject of the second lecture of the series, to be delivered by Dr. Richard H. Smith, professor of Aeronautical Engineering, on January 17. Dr. John W. M. Bunker, professor of Bio-Chemistry and Physiology, will discuss "Light and Life," in a lecture on February 14. The concluding address of the series will be given on March 13 by Dr. Wayne B. Nottingham, assistant professor of Physics, on "Electrons at Work in Pure and Applied Science."

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Applications for admission to the first and third year medical classes entering October 1, 1932, should be sent as soon as possible, and will be considered in the order of receipt. The entrance qualifications are intelligence, character, two years of college work and the requirements for grade A medical schools. Catalogues and application forms may be obtained from the Dean